

Education

- University of Pune, India
 - Ph.D. Atmospheric and Space Sciences, 2008
- North Maharashtra University, Jalgaon, India
 - M.Sc. Material Science, 2002
 - B.Sc. Physics, 2000

Research Interests

Remote sensing using active and passive instruments for the study of aerosols, clouds, temperature and water vapour, Aerosol-Cloud interaction, Radiative forcing, Satellite probed understanding of aerosols and clouds.

Professional experience

- Postdoctoral Researcher, Jet Propulsion Laboratory, 2009-present
 - Influence of aerosols on clouds, precipitation and climate using multi-satellite data analyses and application of satellite observations to evaluate global climate. Research supervised by Dr. Jonathan Jiang.
- Postdoctoral Research Fellow, University of Basilicata, 2007-2009
 - Observational studies using Raman Lidar for the profiling of water vapor, temperature and aerosols data archived during COPS (Convective and Orographically-Induced Precipitation Study) 2007 field campaign. Research supervised by Dr. Paolo Di Girolamo.

Selected Awards

- Award for Outstanding presentation for the presentation titled Water vapour inter-comparison effort in the frame of the Convective and Orographically-induced Precipitation Study: 2008, 6th COPS meeting.
- Best Paper Award for presentation entitled Ground-based Radiometric Measurements of Aerosols and Pre-cursor Gases over Pune and Their Comparison with TOMS and MODIS Satellite Data: 2004, International Conference on Aerosols, Clouds and Indian Monsoon.
- Funding awarded to pursue PhD by the Indian Institute of Tropical Meteorology, under Ministry of Earth Sciences, New Delhi, India.

Selected publications

- 1.) **R. Bhawar**, P. Di Girolamo, D. Summa, C. Flamant, D. Althausen, A. Behrendt, C. Kiemle, P. Bosser, M. Cacciani, C. Champollion, T. Di Iorio, C. Herold, D. Mueller, S. Pal, M. Radlach, A. Riede, P. Seifert, M. Shiler, M. Wirth, V. Wulfmeyer., Water Vapour Intercomparison Effort in the Frame of the Convective and Orographically-Induced Precipitation Study: Airborne-to-Ground-based and airborne-to-airborne Lidar Systems, *submission phase*.
- 2.) Paolo Di Girolamo, Donato Summa, **Rohini Bhawar**, Tatiana Di Iorio, Marco Cacciani, Igor Veselovskii, Alexey Kolgotin, Oleg Dubovik., Raman lidar observations of a Saharan dust outbreak event: characterization of the dust optical properties and determination of particle size and microphysical parameters, *submission phase*.
- 3.) **Rohini Bhawar** , Paolo Di Girolamo, Donato Summa, Tatiana Di Iorio, Belay B. Demoz., Study Of An Mcs Using Raman Lidar In The Frame Of the Convective And Orographically-Induced Precipitation Study, in prep.
- 4.) **R.L.Bhawar.**, and P.C.S.Devara., 2009: Study of successive contrasting monsoons (2001-2002) in terms of aerosol variability over a tropical station Pune, India, *Atmospheric Chemistry and Physics Discussions*, Vol. 9, pp 6957-6977, 16-3 (*accepted in ACP for publication*).
- 5.) **R. Bhawar**, G. Bianchini, A. Bozzo,M. Cacciani, M. R. Calvello, M. Carlotti, F. Castagnoli, V. Cuomo, P. Di Girolamo, T. Di Iorio, L. Di Liberto, A. di Sarra, F. Esposito, G. Fiocco, D. Fuà, G. Grieco, T. Maestri, G. Masiello, G. Muscari, L. Palchetti, E. Papandrea, G. Pavese, R. Restieri, R. Rizzi, F. Romano, C. Serio, D. Summa, G. Todini, and E. Tosi,. 2008: Spectrally resolved observations of Earth's emission spectrum in the H₂O rotational band, *Geophysical Research Letters*, vol. 35, L04812, doi:10.1029/2007GL032207.